GE
Lighting

Evolve™ LED Roadway Lighting

Security Light (E2SA)

imagination at work

Product Features

GE Roadway Lighting systems have been recognized for the highest quality and reliability in Outdoor, Utility, DOT and infrastructure lighting applications. The Evolve™ LED Security Light provides energy efficiency in a robust fixture built to withstand even the harshest elements. GE's advanced optical design offers various photometric options to meet your lighting requirements.

Applications

- Designed for outdoor work yards, roadside commercial establishments, suburban developments, rural areas.

Housing

- Die-cast aluminum hood

LED & Optical Assembly

- Structured LED arrays for optimized type 3 and type 5 square distributions
- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency
- Utilizes high brightness LEDs, 70CRI typical at 4000K and 5000K
- LM-79 test and reports are performed in accordance with IESNA standards

Lumen Maintenance

- System rating is calculated at L70(8K) ≥ 100,000h at fixture Ta = 25C per IESNA TM-21

Ratings

- UL/cUL listed, suitable for wet locations per UL 1598.
- UL 8750 LED equipment in Lighting Products.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Vibration rating at 1.5G (min) per ANSI C136.31-2010.
- Photo Control/Socket includes ANSI Twist Lock per ANSI C136.10 for PE function options 2, 4, and 5.
- Driver Rated Life >=100,000 hrs at 70C case temperature.

Mounting

- Slipfitter is adjustable for 1-1/4 in. to 2 in. pipe
- Mounting Hardware Kit
  - (1) 5/8 x 10 Throughbolt and Nut (15.9mm x 254mm)
  - (2) 3/8 x 3 Lag Screws (9.5mm x 76mm)

Finish

- Cast aluminum

Electrical

- 120-277 volt.
- System power factor is >90% and THD <20%
- Class "A" Sound rating.
- Surge Protection per ANSI C136.2-2014
  - Standard: 6Kv/3kA "Basic" (w/extended C62.41.2 Combination Wave capacity of 120 events)
  - Optional: 10kV/5kA "Enhanced"
- EMI: Title 47 CFR 15 Class A.

Ordering Number Logic

Evolve™ LED Security Light (E2SA)

E 2 S A 0 _ _ _ _ 1 _ _ _ _ _ _

PROD. ID	VOLTAGE	OPTICAL CODE	PHOTOMETRIC TYPE	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING	POWER LEADS	OPTIONS
E2SA = Evolve Security Light	**0** = 120-277	See Charts for all levels	**A3** = Type 3 Asymmetric w/Zero Uplight **A5** = Type 5 Square w/Zero Uplight **B3** = Type 3 Asymmetric w/Acrylic Refractor **B5** = Type 5 Square w/Acrylic Refractor	**1** = Standard	**40** = 4000K **50** = 5000K	**2** = PE Rec.* **4** = PE Rec. with Shorting Cap* **5** = PE Rec. with Control* * Compliant with ANSI C136.10 **NOTE:** Order dimming control PE as separate item.	**N** = None **L** = Long 24 in Bracket	**N** = None **2** = 3 ft # 14 Leads **4** = 5 ft #14 Leads **5** = 8 ft #14 Leads **6** = 8ft #10 Leads	**D2** = Dimming Driver (0-10 Volt input) **R** = Secondary Enhanced Surge Protection (10kV/5kA)* * Contact manufacturer for availability.

PRODUCT ID	OPTICAL CODE	PHOTOMETRIC TYPE	TYPICAL SYSTEM WATTAGE	TYPICAL INITIAL LUMENS		IES FILE NUMBERS	
			120-277V	4000K	5000K	4000K	5000K
E2SA	A1	A3	42	3900	3900	E2SA_A1A3140	E2SA_A1A3150
E2SA	B1		57	5600	5600	E2SA_B1A3140	E2SA_B1A3150
E2SA	A1	A5	42	3900	3900	E2SA_A1A5140	E2SA_A1A5150
E2SA	B1		57	5600	5600	E2SA_B1A5140	E2SA_B1A5150
E2SA	A1	B3	42	3600	3600	E2SA_A1B3140	E2SA_A1B3150
E2SA	B1		57	5200	5200	E2SA_B1B3140	E2SA_B1B3150
E2SA	A1	B5	42	3600	3600	E2SA_A1B5140	E2SA_A1B5150
E2SA	B1		57	5200	5200	E2SA_B1B5140	E2SA_B1B5150

Photometrics

Evolve™ LED Security Light (E2SA)

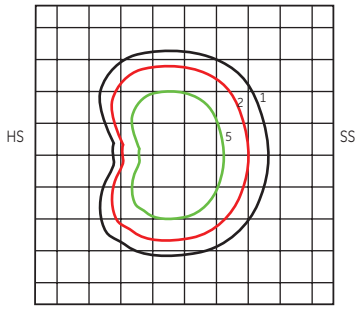
ISO Plot

Polar Curve

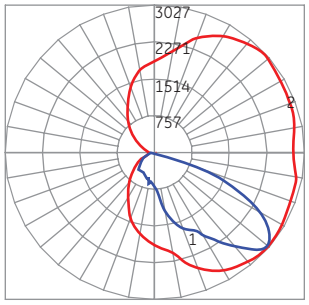
CU Graph

E2SA Asymmetric (B1A3)

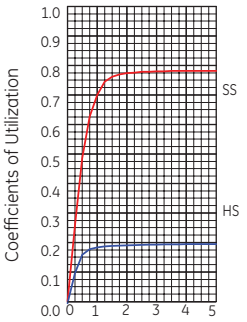
5,600 Lumens
4000K
E2SA_B1A3140.ies



Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade



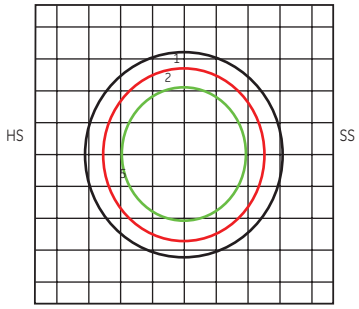
— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°



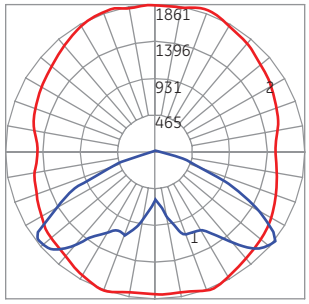
Street Width/Mounting Height

E2SA Symmetric Square (B1A5)

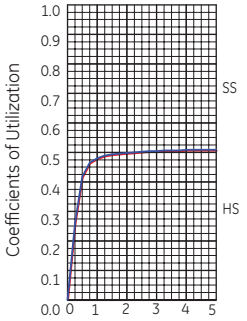
5,600 Lumens
4000K
E2SA_B1A5140.ies



Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade



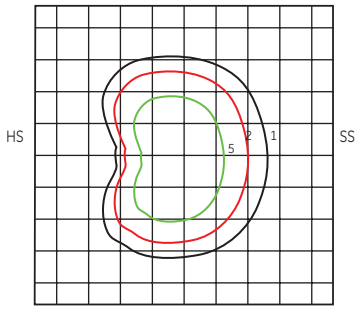
— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°



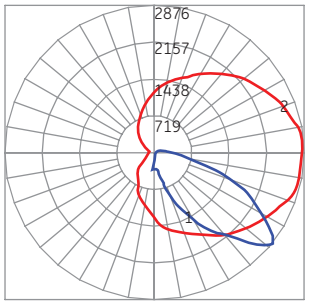
Street Width/Mounting Height

E2SA Asymmetric (B1B3)

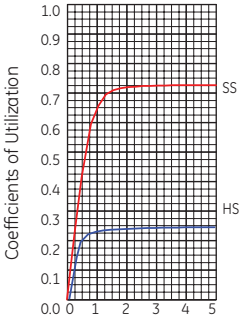
5,200 Lumens
4000K
E2SA_B1B3140.ies



Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade



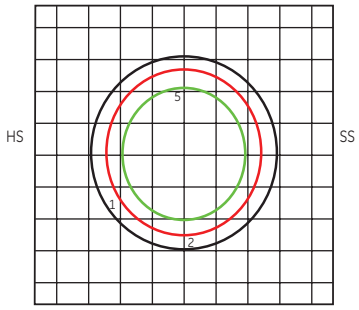
— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°



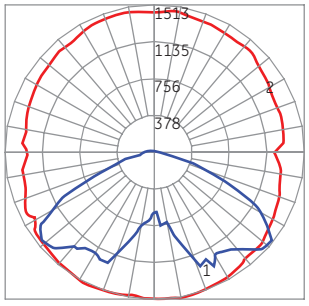
Street Width/Mounting Height

E2SA Symmetric Square (B1B5)

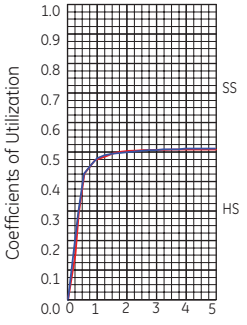
5,200 Lumens
4000K
E2SA_B1B5140.ies



Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade



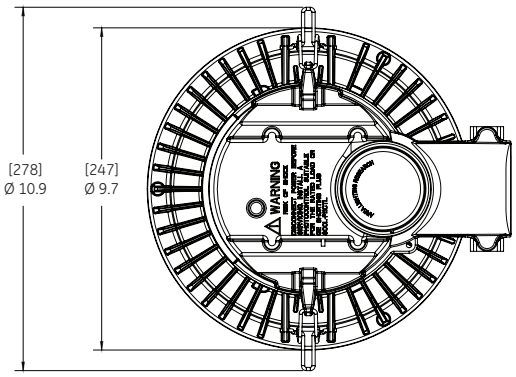
— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°



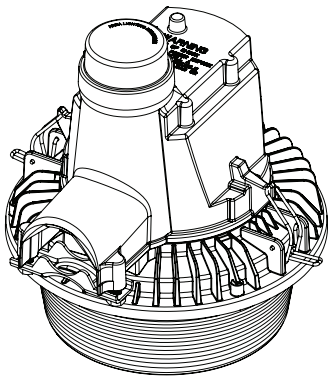
Street Width/Mounting Height

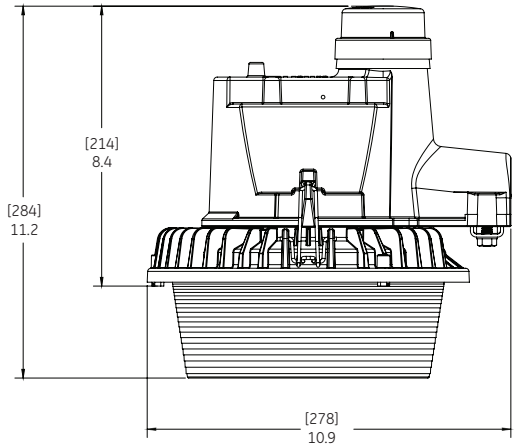
Product Dimensions

Evolve™ LED Security Light (E2SA)

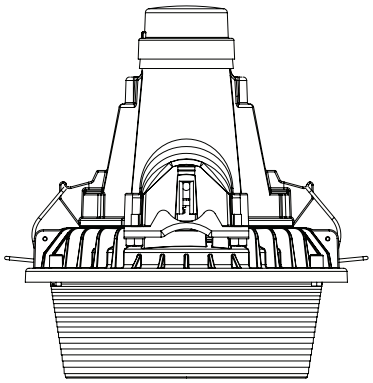


TOP VIEW

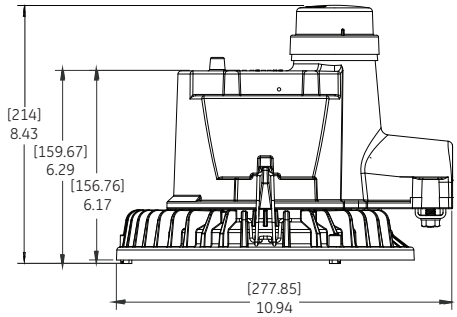




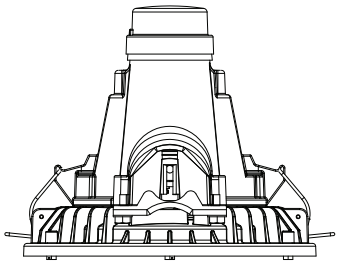
SIDE VIEW



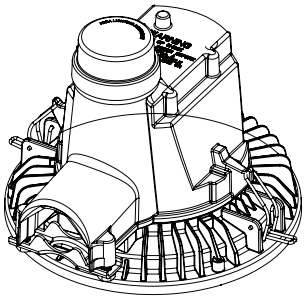
BACK VIEW



SIDE VIEW



BACK VIEW



DATA	
	• Approximate Net Weight 8.10 lbs Long 24 in. (610 mm) Mounting Bracket: 16 lbs (7.3 kgs) • Effective Projected Area: 1.37 sq. ft. max. (0.1 sq. M max.) • Suggested Mounting Height: 12-25 ft. (4-8 M)

www.gelighting.com

GE and the GE Monogram are trademarks of the General Electric Company. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting and GE Lighting Solutions, LLC are businesses of the General Electric Company. © 2015 GE.

OLP3076 (Rev 03/04/15)